

Calculation of elastic-dynamical properties of...

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R/008/60/000/005/008/014
A231/A126

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in the form of some trigonometrical series. Identifying these series with those given by the limit conditions (7) for the coefficients C_{1kp} , C_{2kp} , C_{3kp} and C_{4kp} , one obtains a linear algebraic system of 4 equations and a corresponding system for the coefficients K_{1kp} , K_{2kp} , K_{3kp} and K_{4kp} . By the theorem of Laplace, one finally obtains an integral equation, leading to the final result as given in

$$\frac{2\mu}{Pr_0} u = \begin{cases} \frac{r_0}{r} \frac{r^2 + (2\gamma - 1)r_1^2}{(2\gamma - 1)(r_1^2 - r_0^2)} - \frac{F(i\omega)}{G(i\omega)} \cos \omega + \\ + 2 \sum_{i=1}^{\infty} \frac{F(i\alpha_i) \left[1 - \frac{\alpha_i^2}{\omega^2}\right]^{-1} J(r_0) J(r_1) \cos \alpha_i t}{J(r_1) \left[\frac{\alpha_i^2 \gamma^2 r_1^2}{a^2} - 2\gamma + 1\right] - J(r_0) \left[\frac{\alpha_i^2 \gamma^2 r_1^2}{a^2} - 2\gamma + 1\right]} \\ \text{pentru } 0 < r < \tau \end{cases} \quad (47)$$

$$\begin{cases} \frac{F(i\alpha_i) \left[1 - \frac{\alpha_i^2}{\omega^2}\right]^{-1} J(r_0) J(r_1) [\cos \alpha_i t - \cos \alpha_i (t - \tau)]}{2 \sum_{i=1}^{\infty} \frac{J(r_1) \left[\frac{\alpha_i^2 \gamma^2 r_0^2}{a^2} - 2\gamma + 1\right] - J(r_0) \left[\frac{\alpha_i^2 \gamma^2 r_1^2}{a^2} - 2\gamma + 1\right]} \\ \text{pentru } t > \tau \end{cases}$$

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For the practical use of the preceding expressions there are some simplified representations of the functions $F(p)$ and $G(p)$. In case that $\tau > 10^{-4}$, the solution of the problem can be expressed by

$$\frac{2\mu}{pr_0} u = \begin{cases} \frac{r_0}{r} \frac{r^2 + (2\gamma - 1)r_1^2}{(2\gamma - 1)(r_1^2 - r_0^2)} \left(1 - \cos \frac{2\pi}{\tau} t\right), & \text{pentru } 0 < r < \tau \\ 0 & \text{pentru } t > \tau \end{cases} \quad (60)$$

Thus, the elastic displacement is expressed by a factor corresponding to a pressure which is equal to the statically applied unity, multiplied by a time function given by the variation law of the load. Based on formula (60) practical calculation has been carried out for a cylinder with the following specifications:

$$r_0 = 0.38 \text{ cm}; r_1 = 0.7 \text{ cm}; E = 2.110^6 \frac{\text{kg}}{\text{cm}^2}; G = 8.110^5 \text{ kg/cm}^2$$

$$\lambda = 8.1 \cdot 10^5 \text{ kg/cm}; \mu = 8.1 \cdot 10^5 \text{ kg/cm}^2; \gamma = 1.5; a = 5.529 \cdot 10^5 \text{ cm/s} \quad (61)$$

leading to the final result:

$$u = \frac{Pr_0}{2\mu} \{ 1.16 - 0.0003 \}. \quad (64)$$

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Applying the Laplacian transformation, the authors reduce the problem to a system of differential equations, which by means of the Fourier method leads to a linear differential equation with variables of the fourth order, the general solution of which is performed by Bessel functions of the first order belonging to the first and second kind. In particular one case has been investigated: when a plane phenomenon and a load is produced through shock pressure effecting the internal surface. The static effect is separated from the dynamic effect, and the dependence of the dynamic effect on the duration of the load effect is elaborated. The theoretical results were demonstrated in practical calculation of the load effect in a steel tube of the given dimensions. There are 3 figures and 8 references: 6 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: A Gray, G. B. Mathews, "Bessel functions and their applications to physics" Moscova, 1951.

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24263

R/008/61/000/002/001/008

D235/D304

24 4200 also 2807

AUTHORS: Mişicu, M., and Dincă, Fl.

TITLE: Dynamic bending of girders with viscoelastic properties. I.

PERIODICAL: Studii şi cercetări de mecanică aplicată, no. 2, 1961, 239 - 254

TEXT: The authors establish the equations of the transverse vibrations of a straight girder which has linear viscoelastic properties depending on an arbitrary number of parameters. A series of usual schemes in the theory of viscoelasticity are considered to be the physical schemes of the properties of the viscoelastic material. These schemes were first considered by L. Boltzmann and later described, under the designation of Voigt and Maxwell models. In this paper, the authors do not consider the plastic phenomena; the general theory of motion, however, is established for an Alfrey-type model of generally linear oscillation. Since no creep-

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ing phenomena interfere, a Maxwell model is considered in the applications regarding the vibrations of frequencies of 5 - 10 cps. For determining the differential equation of the transversal oscillations of straight beams, the authors consider a straight beam of L length, referred to an orthogonal system of O_{xyz} axes, the Oz axis coinciding with the non-distorted axis of the girder, while the Ox axis is directed in such a way that the system of coordinates should be a straight system. The equations of motion may be deduced from the rheological theory of continuous media. If $\sigma(z)$ is the normal stress on the transversal section at a z distance from the axis, the following hypothesis may be admitted: a) the material distorts according to a general rheological scheme; b) The P and Q operators are purely differential; c) p_n and q_n are constant coefficients; d) The transverse dimensions of the girder are reduced in ratio with the length L, so that the current hypothesis in the theory of thin girders may be accepted. These hypotheses lead to the equation of transversal vibrations:

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$$\mathcal{L}I \frac{\partial^4 u}{\partial z^4} + m \frac{\partial^2 u}{\partial t^2} = f(z, t), \quad (1.5) \quad (1.5)$$

in which I is the inertia moment of the transversal section, u the overall displacement in the direction of the Ox axis, m the mass of the length unity, $f(z, t)$ the external force referred to the length unity. The complete solution of the Cauchy problem for the transversal vibrations of the girders consists in determining the solution of the differential equation.

$$EI \sum_{n=0}^r q_n \frac{\partial^{n+4} u}{\partial t^n \partial z^4} + m \sum_{n=0}^r p_n \frac{\partial^{n+2} u}{\partial t^{n+2}} = \sum_{n=0}^r p_n \frac{\partial^n f}{\partial t^n}. \quad (1.6) \quad (1.6)$$

within the boundary conditions

$$\begin{aligned} \sum_i \alpha_i u^{(i)}(0, t) &= \sum_i \beta_i u^{(i)}(0, t) = 0, \\ \sum_i \alpha_i u^{(i)}(0, t) &= \sum_i \beta_i u^{(i)}(0, t) = c, \end{aligned} \quad (1.7) \quad (1.7)$$

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and the initial conditions

$$\alpha_0 = \beta_0 = \alpha_2' = \beta_2' = 1. \quad (1.8)$$

Considering the solution to have the shape of

$$u(z, t) = \sum_{i=0}^{\infty} Z_i(z) T_i(t), \quad (2.1) \quad (2.1)$$

$Z_1(z)$ and $T_1(t)$ being the functions to be determined, the authors deduce

$$Z_i^{IV} - \lambda^4 Z_i = 0, \quad (2.5)$$

$$EI \lambda^4 \sum_0^r q_n T_i^{(n)} + m \sum_0^r p_n T_i^{(n+2)} = \sum_0^r p_n f_i^{(n)}(t). \quad (2.5)$$

On the basis of the Green function and the Broomwich integral the authors then deduce the relation of $T(t)$

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$$\begin{aligned} T(t) = L^{-1} \frac{\overline{f(p)}}{\pi(p)} + T_0^{(n-1)} \pi_n Y(t) + T_0^{(n-2)} [\pi_n Y'(t) + \pi_{n-1} Y(t)] + \\ + T_0^{(n-3)} [\pi_n Y''(t) + \pi_{n-1} Y'(t) + \pi_{n-2} Y(t)] + \dots + \\ + T_0^{(0)} [\pi_n Y^{(n-1)}(t) + \pi_{n-1} Y^{(n-2)}(t) + \dots + \pi_1 Y(t)] = \\ = T_1(t) + T_2(t), \end{aligned} \quad (2.27)$$

in which $T_1(t)$ and $T_2(t)$ are expressed by

$$\begin{aligned} T_1(t) = L^{-1} \frac{\overline{f(p)}}{\pi(p)}, \\ T_2(t) = T_0^{(n-1)} [\pi_n Y'(t) + \pi_{n-1} Y(t)] + \dots + \\ + T_0^{(0)} [\pi_n Y^{(n-1)}(t) + \pi_{n-1} Y^{(n-2)}(t) + \dots + \pi_1 Y(t)], \end{aligned} \quad (2.28)$$

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$T_1(t)$ represents the solution of the differential equations for the homogeneous initial conditions while T_2 for the given initial conditions. T_2 is completely determined by the initial conditions, while T_1 by the disturbing function. There are 1 figure, 1 table and 24 references: 2 Soviet-bloc and 22 non-Soviet-bloc. The four most recent references to English-language publications read as follows: D.S. Berry and S.C. Hunter, The propagation of dynamic stresses in viscoelastic rods, J. Mech. Phys. Solids, 4, 72-95, 1956; H. Kolski, The propagation of stress in viscoelastic solids, Applied Mechanics Review, II, 9, 465 - 68, 1958; E.H. Lee, and J.A. Morrison, A comparison of propagation of longitudinal waves in rods of viscoelastic materials, J. Poly. Sci., 19, 93 - 110, 1956; J.A. Morrison, Wave propagation in rods of Voigt material and viscoelastic materials with three parameter models, Quart. Appl. Math., 14, 153 - 196, 1956.

SUBMITTED: December 21, 1960

Card 6/6

MISICU, M.; DINCA, Fl.

Some experimental results in the field of the dynamic flexion of the bars with viscous elastic properties. Studii cerc mec apl 12 no.4: 899-907 '61.

(Rods) (Elasticity)

DINCA, F.; THEODORE, G.

Calculation of telescopic hydraulic dampers. Studi cerc mec apl
16 no.4:879-899 '64.

1. "Traian Vuia" Institute of Applied Mechanics, Romanian Academy,
Bucharest.

DINCA, Fl.; TEODOSIU, C.

Study of free oscillation systems with nonsymmetrical square dissipation. Studii cerc mat apl 17 no.5:1173-1185 '64.

1. "Traian Vuia" Institute of Applied Mechanics of the Romanian Academy, Bucharest. Submitted June 12, 1964.

RUMANIA/Microbiology - Microbiology -Pathogenic to Humans and
Animals.

F-4

Abs Jour : Ref Zhur - Biol., No 12, 1958, 52939

Author : Draghici, O., Dinca, G.

Inst : -

Title : Epidemiological Observations of Benign Leptospiroses in
the Beyyush District.

Orig Pub : Microbiol., parazitol. si epidemiol., 1957, 2, No 3, 227-
234.

Abstract : No abstract.

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- 55 -

SLOBODA, Eva; BUIMOVICI-KLEIN, Elera; DAN, B.; avec la collaboration de:
MANICATIDE, E.; GHEORGHE, Maria; DINCA, Geta

Enterovirus viremia and homologous serological conversion
concomitant with non-enteroviral syndromes. (Preliminary
note). Arch. Roum. path. exp. microbiol. 23 no.4:1061-1069
D '64.

1. Institut "Dr. I. Cantacuzino", Service des Enterovirus
(for Sloboda, Buimovici-Klein) et Clinique de Maladies Conta-
gieuses No.1, Bucarest (for Dan). Submitted June 26, 1964.

RUMANIA

DINCA, Gh., Dr, and PETRESCU, A., Eng of the Zootechnical Research Institute (Institutul de Cercetari Zootehnice), MARTA, N., Eng, of the Sintamaria-Orlea State Farm of Hunedoara (GAS Sintamaria-Orlea, Hunedoara), DEAN, I., Eng, of the Bulgarus State Farm (GAS Bulgarus) of Banat and CONSTANTEA, C., Eng, of the Mihai Viteazu State Farm (GAS Mihai Viteazu), of Cluj.

"Mammal Rest, an Important Factor in the Increase of Milk Yield in Cows."

Bucharest, Revista de Zootehnie si Medecina Veterinara, Vol 13, No 7, Jul 63, pp 27-35.

Abstract: Describes studies conducted with 254 adult cows between 5 and 11 years old to determine the effect of mammal rest on milk production and the birth weight of the calves. An adequate period of mammal rest, about 60 days, with adequate feeding and 2 to 3 hours of exercise daily results in a considerable increase in milk production and weight of calves. Contains 1 table and 12 references, of which 4 are German, 3 Russian and 5 Rumanian.

BITA, Olga; DINCA, I.

Behavior of certain phosphorous additives in heavy loads. Studii
part mec apl 13 no.5:1221-1232 '62.

BITA, Olga; DINCA, I.

Aspects of the behavior of some bearing materials subjected to wear. Studii cerc mec apl 14 no.2:319-330 '63.

DINCA, I.

Some aspects of the problem of cultivation of hybrid black poplars in
Rumania. p. 346. REVISTA PADURILOR. Bucuresti. Vol. 70, no. 8, Aug. 1955.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, No. 3, March 1956

DINCA, I.

Fulfillment of the first 5-year plan for afforestation, great success
of the policy of renewing the Rumanian stock of forests. p. 371.

REVISTA PADURILOR. Bucuresti.

Vol. 70, no. 9, Sept. 1955

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 2,
February 1956

DINCA, I.

Some aspects of the Soviet thematic plan of scientific research in the field of silviculture. p. 46.
(RIVESTA PADURILOR. ROMANIA. Vol. 71 (i. e. 72) no. 1, Jan. 1957.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

Country : RUMANIA

K

Category: Forestry. Forest Management.

Abs Jour: RZhBiol., No 11, 1958, No 48748

Author : Dinca, Ilic

Inst : -

Title : Some Problems of Forest Management and Forest Organization
(in Rumania) in the Light of their Organization in the
Soviet Union.

Orig Pub: Rev. padurilor, 1957, 71, No 5, 326-329

Abstract: No abstract.

Card : 1/1

COUNTRY : Rumania K
CATEGORY : Forestry. Forest Cultures.
AB3. JOUR. : RZBiol., No. 2, 1959, No. 6195
AUTHOR : Cacuci, I.; Clonaru, Alex.; Dinca, I.
INST. : --
TITLE : The Expediency of Extending Poplar Culture
in Rumania.
ORIG. PUB. : Rev. padurilor, 1958, 72, No.4, 228-231.
ABSTRACT : No abstract

CARD: 1/1

BITA, Olga; DINCA, I.

Some new data on the running in of internal combustion engines.
Studii cerc meo apl 12 no.5:1151-1160 '61.

VASILICA, Gh.; NICA, Al.; BITA, O.; DINCA, I.

Some aspects of effects of the structural type of two
aluminum alloys on their sliding and wear resisting
performance. Studii cerc mec apl 14 no. 6: 1431-1447
'63.

VASILCA, Gh.; NICA, Al.; BITA, O.; DINCA, I.

Some aspects of the effects of the structural type of two aluminum alloys on their sliding and wear-resisting performance. Rev mec appl 9 no. 5:1085-1100 '64.

1. Institute of Applied Mechanics, Rumanian Academy.

VASILICA, G.; BITA, Olga; DINCA, I.

Investigations on the wear and seizure resistance of friction hardened steel pairs. Rev mec appl Roum 9 no.6:1439-1449 '64.

1. Institute of Applied Mechanics of the Rumanian Academy (for Dinca). Submitted July 2, 1964.

PIRVULESCU, N.S.; DINCA, I.

Effect of the nonresiliency of the derrick hole on the bottom equipment. Studii cerc mecat 17 no.5:1153-1172 '64.

1. Bucharest Enterprise for Drilling and Ground Equipment, "Traian Vuia" Institute of Applied Mechanics of the Romanian Academy, Bucharest. Submitted June 27, 1964.

VASICA, Gh.; BITA, O.; DINCA, I.

Studies on the wear and seizing resistance of hardened steel couples.
Studii cerc mec apl 17 no.6:1623-1633 '64.

1. Institute of Applied Mechanics, Rumanian Academy (for Dinca).
Submitted June 25, 1964.

VASILCA, Gh.; BITA, O.; DINCA, I.

Concomitant action in the process of friction and wear of soft and hard stages in the case of metallic structures with semihard matrix. Studii cerc me: apl 15 no.2:461-473 '64.

1. Submitted December 19, 1963.

ACC NR: AP5014664

SOURCE CODE: RU/0019/65/010/002/0451/0462

AUTHOR: Bitu, Olga; Dinca, I.

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ORG: Institute for Applied Mechanics of the Academy of the R. P. R.,
Bucharest

TITLE: Aspects of friction and wear in molybdenum disulfide
lubrication

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SOURCE: Revue Roumaine des sciences techniques. Serie de mecanique
appliquee, v. 10, no. 2, 1965, 451-462

TOPIC TAGS: lubrication, molybdenum disulfide, friction, grain size,
metal surface, parameter

ABSTRACT: The efficiency of molybdenum disulfide (MoS_2), used as
lubricant, is strongly influenced by the purity and the homogeneity of
the grain size. This paper presents some observations and experimental
results concerning the influence of the purity and grain size of
various qualities of natural and synthetic molybdenum disulfide on
the friction and wear of metal surfaces tested under conditions of
variable operating parameters. Orig. art. has: 5 figures and 7 tables.
[Based on author's abstract] [KS]

SUB CODE: 11/
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SUBM DATE: 08Jul64/
UDC: 539.6

ORIG REF: 001/ SOV REF: 001/ 2
OTH REF: 008/

BITA, Olga; DINCA, I.

Behavior of some additives with a phosphorus base under heavy loads. Rev mec appl 8 no.3:441-452 '63.

GEANA, Ion; COVACI, Ion; DINCA, Nicolae

Letters from the newspaper correspondents of the General
Direction of Construction and Assembling, Bucuresti.
Constr Buc 14 no. 67313; 1 December 1962.

COUNTRY : Rumania
CATEGORY :

H-34

ABS. JOUR. : RZKhim., No. 5 1960, No.

20497

AUTHOR : Calin, C., Rosenberg, S., and Dinca, V.
INST. : Not given
TITLE : The Dyeing of Polyamide Fibers with Anion-type
Dyes. Communication II. Direct Dyes.

ORIG. PUB. : Ind Text (RPR), 10, No 4, 148-152 (1959)

ABSTRACT : Differences are shown in the behavior of direct dyes towards polyamide and cellulose fibers as well as differences in the action of individual dyes on polyamide fibers. Optimum dyeing conditions, percent selectivity, saturation limits, migration tendency [sic], and various fastness indices have been determined for a number of anion-type dyes on polyamide fibers. Difficulties in the dyeing of polyamide fibers with direct dyes and limitations to the use of dye mixtures are noted. For Communication I see RZhKhim, 1959, No 18, 66736.

CARD: 1/1

415

O. Golosenko

DINCHEV, D.

New method for tempering the cutting parts of mowing machines and harvesting machines.

P. 40, (Tezhka Promishlenost) Vol. 6, no. 1, Jan. 1957, Sofia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) Vol. 6, No. 11 November 1957

DENCHEV, D.

"Furnace for automatically tampering knives of combines, reaping machines, etc."

p.24 (Ratsionalizatsiia, Vol. 7, no. 2, Feb. 1957, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 8, August 1958

DINCHEV, D.; PARARINSKII, N.

Effect of biologically bound nitrogen on free ~~maize~~ aminoacids when jointly cultivated with beans. Doklady BAN 14 no.7:739-742 '61.

1. Predstavleno chl.-korr. I. Milkovskim.

(Nitrogen) (Maize) (Beans)

S/137/62/000/012/012/085
A006/A101

AUTHORS: Mechenov, P., Dinchev, D.

TITLE: On the electrolysis of lead-bismuth alloys in a silicon-hydrogen-fluoride electrolyte

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 12, 1962, 20, abstract 12G146 ("Minno delo i metalurgiya", 1962, v. 17, no. 6, 30 - 35, Bulgarian)

TEXT: Laboratory tests have shown that the optimum duration of electrolysis is determined by the Bi and Pb amount in the slurry and depends upon the technical process of slurry processing. Higher $D > 130 \text{ amp/m}^2$ increases the Pb and Bi transition from the anode to the slurry; therefore it is recommended to maintain D under industrial conditions within a range from 100 - 130 amp/m^2 , so that 70% - 76% Bi extraction from the anode to the slurry will be possible. At a high Bi content in the anode, up to 85% Bi can be extracted into the slurry. The preliminary concentration of Bi-dross assures improved indices of electrolysis.

[Abstracter's note: Complete translation]

Ya. Gallyay

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Antibiotics

BULGARIA

DINCHEV, Dr. D.: VIZPB

"Effect of Penicillin in Milk on the Microflora of Bulgarian Sour Milk"

Sofia, Veterinarna Sbirka, Vol 64, No 1, 1967, pp 21-23

Abstract: Antibiotics are used extensively in the treatment of cows: they may get into the milk and affect microorganisms that form lactic acid in it. The action of penicillin added in concentrations of 0.002-0.05 international units per ml milk on the activity of microorganisms forming lactic acid in the process of souring involved in the production of Bulgarian sour milk (Str. thermophilus, Lactobact. bulgaricum, etc.) and on the propagation of E. coli in the milk was studied. It was established that penicillin inhibited the activity of lactic acid bacteria in the milk. Because of the reduced rate of formation of lactic acid, E. coli, the number of which decreases with increasing acidity of the milk in the absence of penicillin, propagated extensively during the process of souring in milk to which penicillin had been added. The results indicated that because of the proliferation of E. Coli Bulgarian sour milk cannot be produced from fresh milk containing more than 0.02 international units penicillin per ml.

Country : BULGARIA
Category : Soil Science. Biology of Soils. J
Abs Jour : RZhBiol., No 6, 1959, 24627
Author :
Inst :
Title :
Orig Pub :
Abstract : at the same time, the amount of microorganisms
is greater around the mineral granules than
around the organic-mineral ones. For example,
in the gray forest soil, the amount of micro-
organisms around the granules in a layer of
0-3 cm is greater by four times in the first
instance and by 2.5 times in the second in-
stance than in soil without the granules. In
other soils (typical and lixiviated), a small
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Country : BULGARIA
Category : Soil Science. Biology of Soils. J
Abs Jour : RZhBiol., No 6, 1959, No 24627
Author :
Inst :
Title :
Orig Pub :
Abstract : increase takes place. Mineral granules produce a stronger but shorter stimulating effect than organic-mineral granules; the powderlike superphosphate stimulates microflora development in a lesser degree than the granulated superphosphate. Phosphoric acid passes from the granules into the soil in a greater amount from the mineral granules than from the organic-mineral ones. Thus, in gray forest
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Country : BULGARIA
Category : Soil Science. Biology of Soils. J
Abs Jour : RZhBiol., No 6, 1959, No 24627
Author :
Inst :
Title :
Orig Pub :
Abstract : soil after 20 days around the mineral granule in a layer of 0.3 cm, there is 12.5 times more dissolved phosphoric acid and 7.6 times more around the organic-mineral granules than in soil under control. Farther movement of the phosphoric acid into the soil depends on the physical properties of the soil. The granulated superphosphate changes the qualitative composition of bacteria in the soil.
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Country : BULGARIA
Category : Soil Science. Biology of Soils. J
Abs Jour : RZhBiol., No 6, 1959, No 24627
Author :
Inst :
Title :
Orig Pub :

Abstract : Fluorescent bacteria are found in the immediate vicinity of the granules; they constitute 86-90 percent of the total number of bacteria, growing on "MPA" medium. The observable increase in the harvest of the oats' green mass, at the treatment with superphosphates, the author explains, is due not only to the improvement of supplying the plants with phosphoric compounds, but also to the

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Country : BULGARIA
Category : Soil Science. Biology of Soils. J
Abs Jour : RZhBiol., No 6, 1959, No 24627
Author :
Inst :
Title :
Orig Pub :
Abstract : development of fluorescent bacteria, which
are useful for plants. -- V. V. Mikhaleva

Card : 6/6

BULGARIA / Soil Science. Biology of Soils.

J

Abs Jour: Ref Zhur-Biol., No 21, 1958, 95748.

Author : Dinchev, Dincho.

Inst : Ministry of Agriculture and Forestry.

Title : Influence of Organic-Mineral Fertilizer Mixtures
on Soil Microflora.

Orig Pub: Nauchni tr. M-vo na zemed i gorite. Ser. rast-
einyevodstvo, 1957, 2, No 2, 17-28.

Abstract: No abstract.

Card 1/1

BULGARIA/Soil Science - Soil Biology.

J

Abs Jour : Ref Zhur Biol., No 19, 1958, 86796

Author : Dinchev, D.

Inst : -

Title : Nodule-forming Bacteria of Kidney Beans and Their Use.

Orig Pub : Selskostop. mis"1, 1957, 2, No 10, 608-615

Abstract : No abstract.

Card 1/1

DINCHEV, D.

Distribution and virulence of lucerne tuber bacteria in the
soils of Bulgaria. Izv Inst "Nikola Pushkarov" 1:29-54 '61.

DINCHEV, D.

Nitrogen-fixation activity of bean tuber bacteria.
Izv Inst "Nikola Pushkarov" 1:127-156 '61.

DINCHEV, D.

- [illegible]

PALAVEEV, T.; KHRISTOVA, El.; DINCHEV, D.; TAKOVA, T.; BIKS, St.

Introduction of boron fertilization in Bulgaria. Izv Inst
"Nikola Pushkarov" 4:89-131 '62.

DINCHEV, D.

Characteristics of nitrogen fixed by bean nodile bacteria.
Izv Inst "Nikola Pushkarov" 4:155-165 '62.

Distribution of bacteriophages in the lucerne nodule bacteria
in Bulgarian soils. Ibid.:187-194

DINCHEV, Lino

Influence of temperature on the nitrification of ammonia water in the soil. Selskostop nauka 1 no.7/8:779-784 '62.

DINCHEV, D.

Soil actinomycetes, antagonists of alfalfa tuber bacteria. Izv Inst
"Nikola Pushkarov" no.2:77-89 '62.

ILKOV, D.; DINCHEV, D.

Organomineral manuring of hoeing cultures. Izv Inst
"Nikola Pushkarov" no.5:153-173 '62.

STAIKOV, Tsv.; DINCHEV, D.

An international conference on the methods of determining
the reserves of soils with substances nutrient to plants.
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Inst : -

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Orig Pub: Probl. agric. 1957, 2, No 11, 60-71

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ACC NR: AP6030196

SOURCE CODE: RU/0022/66/011/001/0029/0036

AUTHOR: Sandu, Gheorghe (Doctor; Engineer; Laboratory Chief); Rudzic, Natalia (Engineer; Researcher); Dincu, Ion (Doctor; Engineer) 6 B

ORG: Laboratory of Soil Improvement, Section of Pedology, Central Institute for Agricultural Research (Laboratorul de pedologie ameliorativa din sectia de pedologie a Institutului central de cercetari agricole)

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TOPIC TAGS: underground water, hydrology

ABSTRACT: On the basis of the data presented, the authors distinguish three characteristic areas with regard to mineralization of the ground water: the flood plain zone under the terrace, the central flood plain, and the zone over the bank ridge. In the central flood plain, the degree of mineralization is significantly lower in the permeable layers than in the clayey ones. Ground water of the sandy layers is strongly bicarbonatic, of the sandy-clayey layers bicarbonatic-chloridic, and of the clayey layers chloridic-bicarbonatic. Orig. art. has: 3 figures and 4 tables. [Based on authors' Eng. abst.] [JPRS: 35,326]

SUB CODE: 08 / SUBM DATE: 00Apr65 / ORIG REF: 005 / SOV REF: 002

OTH REF: 005

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3. Chairman of the Section of Chemistry, Rumanian Academy (for Nenitescu). 4. Chairman of the Rumanian Academy, Iasi Branch (for Simionescu). 5. Vice President of the State Planning Committee (for Velea). 6. Director General of the Borzesti Chemical Concern (for Sava). 7. Director, IPRAN (for Manolescu).
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